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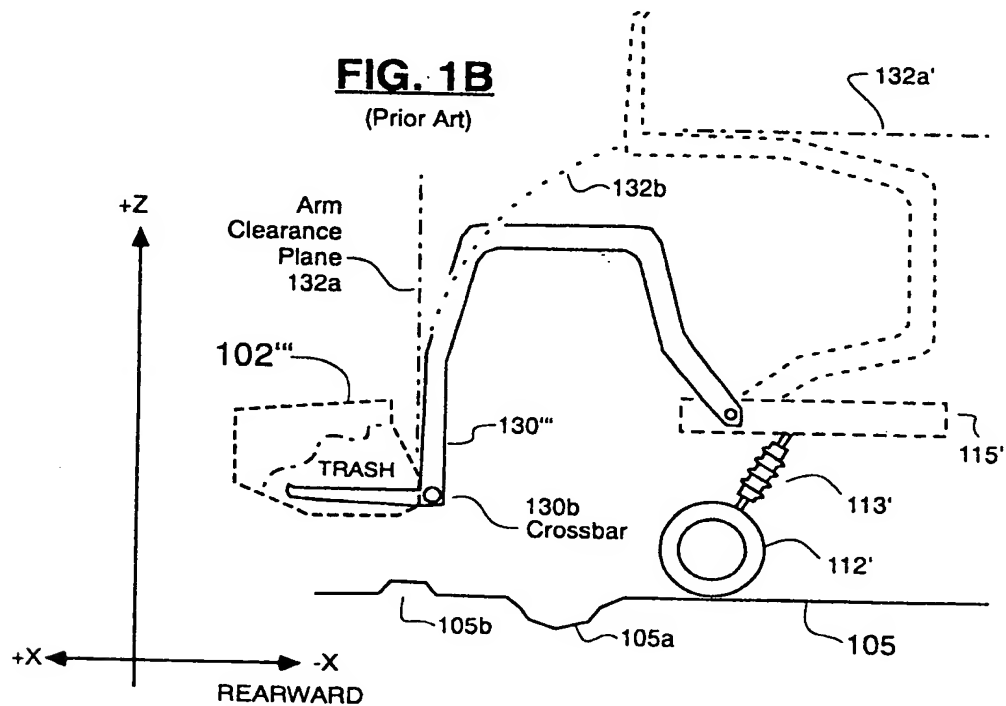
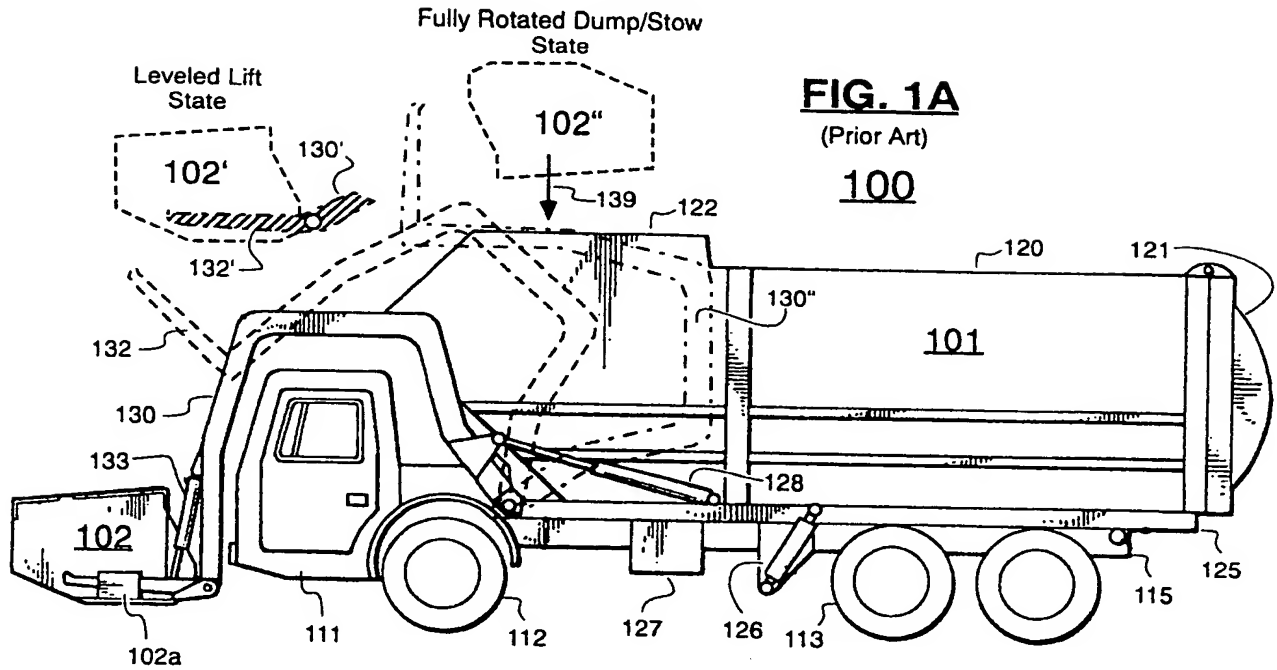
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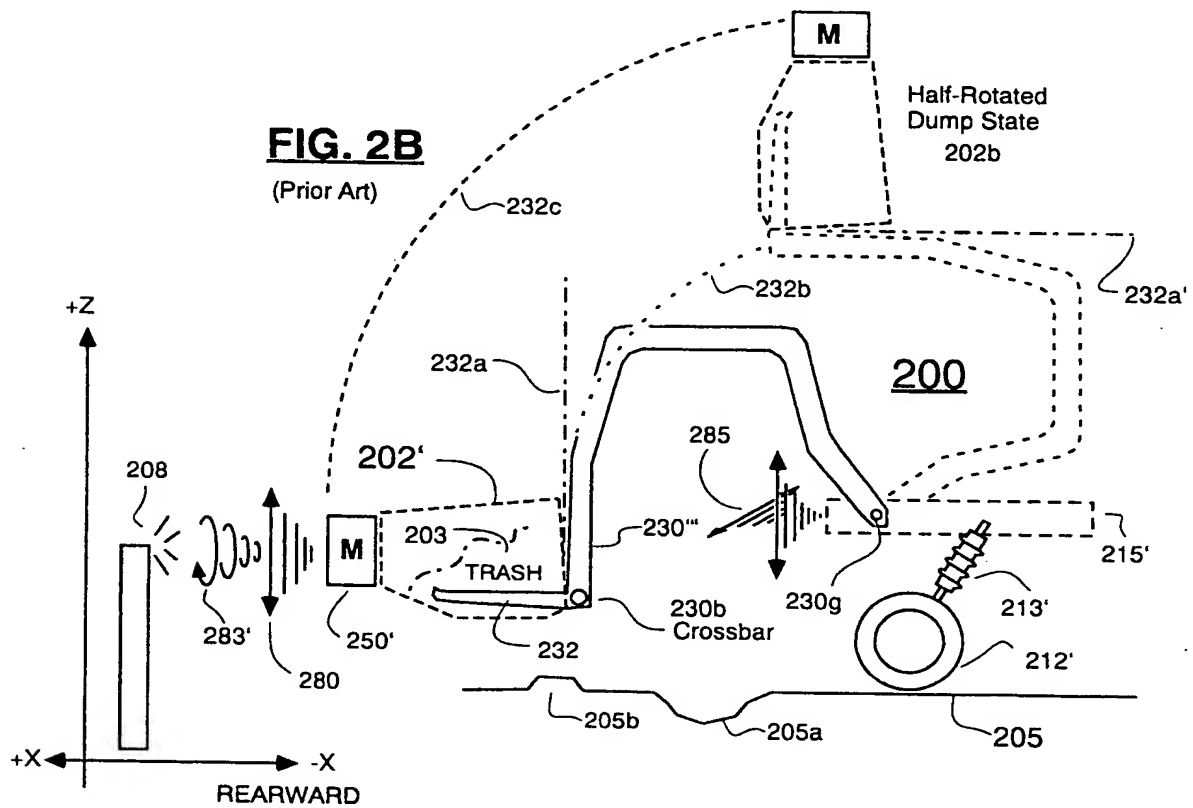
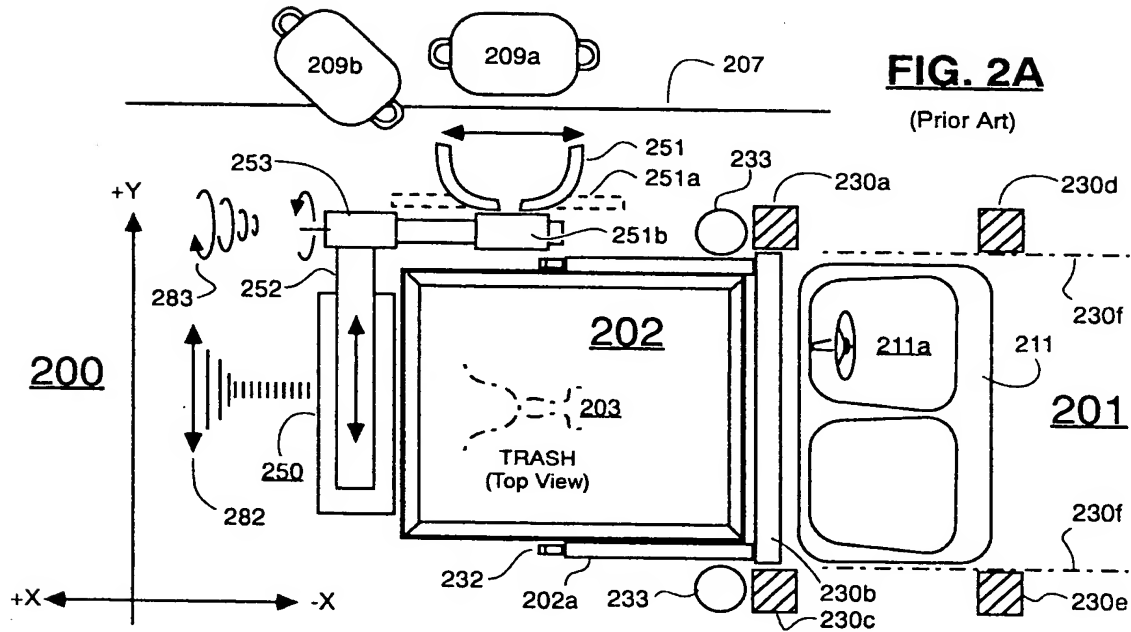


FIG. 2C

(Prior Art)

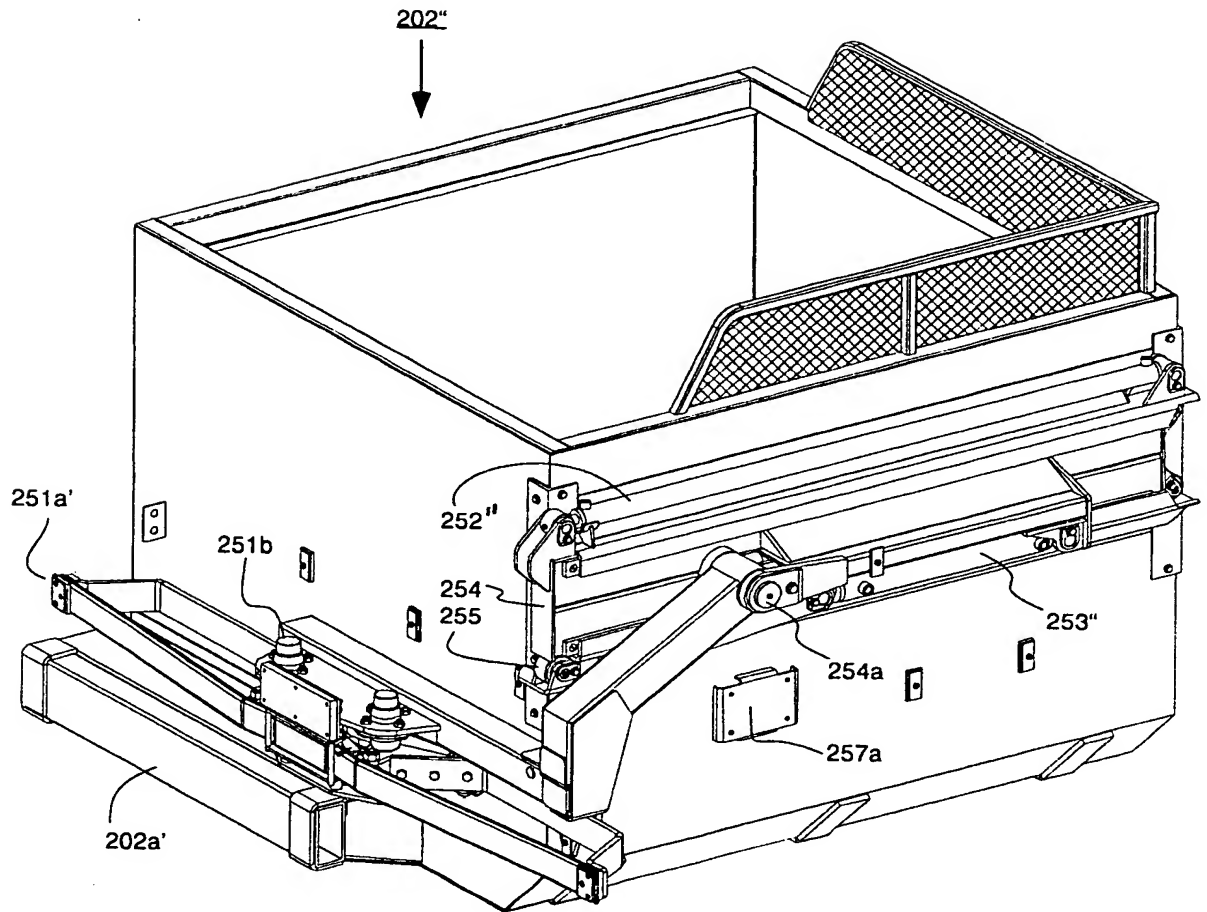


FIG. 2D

(Prior Art)

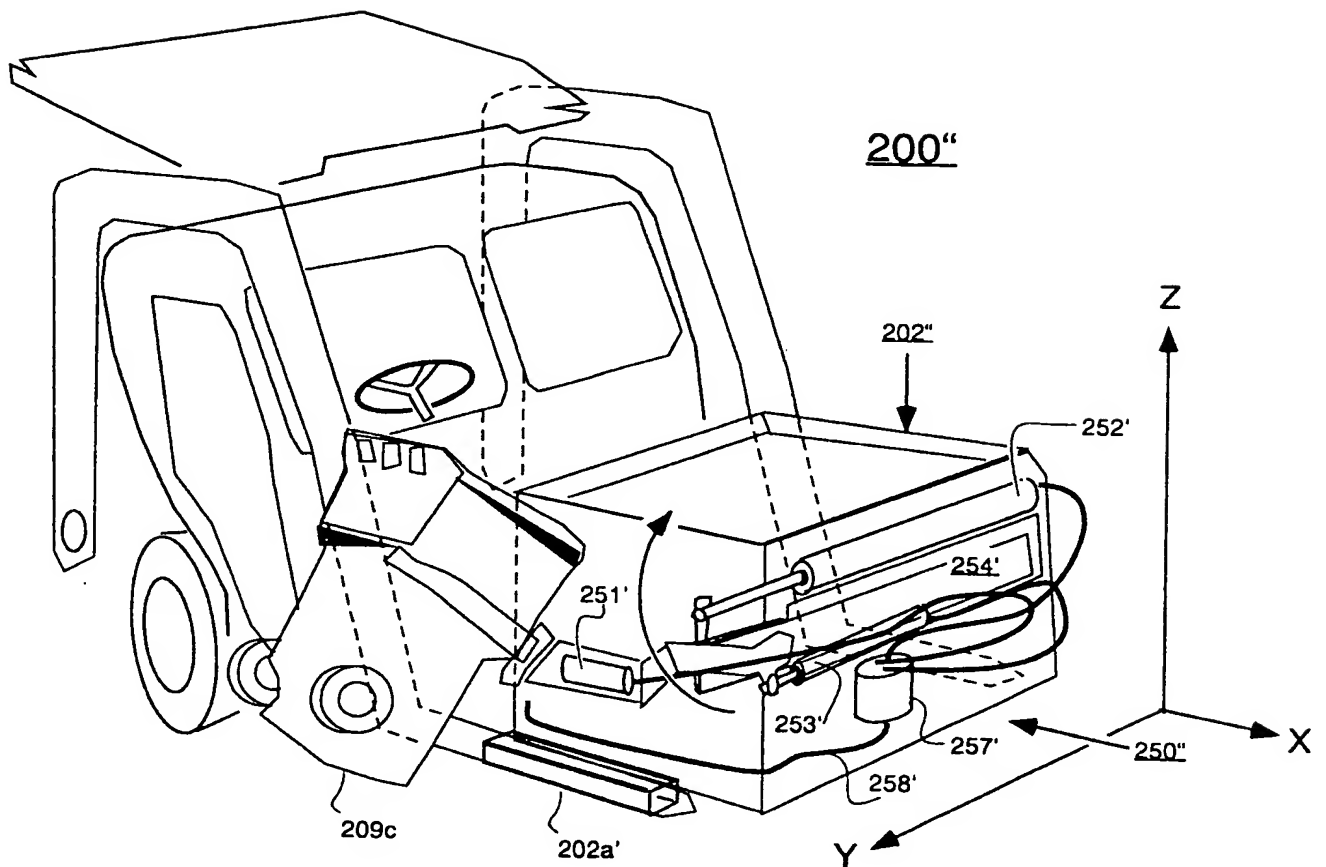


FIG. 3A

The diagram illustrates a trash bin system 300. It features a main rectangular unit 302 labeled "TRASH (Top View)" which contains a dashed outline 303 representing internal components. A vertical shaft 352 extends from the top of the unit. At the top of this shaft is a cup-shaped assembly 351, which includes two curved arms 351a and 351b. Above the cup are two separate cylindrical components 309a and 309b, each equipped with a handle-like feature 307. To the right of the main unit is a control interface 360, which houses several circular elements: 311a, 311b (depicted with a book icon), 391, and 392. A vertical guide rail 353 is positioned adjacent to the shaft, supporting various mechanical parts including 350, 353, 332, 302a, 333, 330b, 330c, and 330e. A coordinate system at the bottom left indicates the orientation with +Y pointing upwards, -X pointing to the left, and +X pointing to the right.

FIG. 3B

300

+Z

308

302'

350'

303

TRASH

M

333'''

311a

330b Crossbar

330g

313'

312'

315'

332a

332b

332c

301'

330'''

385

314a

314b

314c

314 Cradle

Bumper 314d

305b

305a

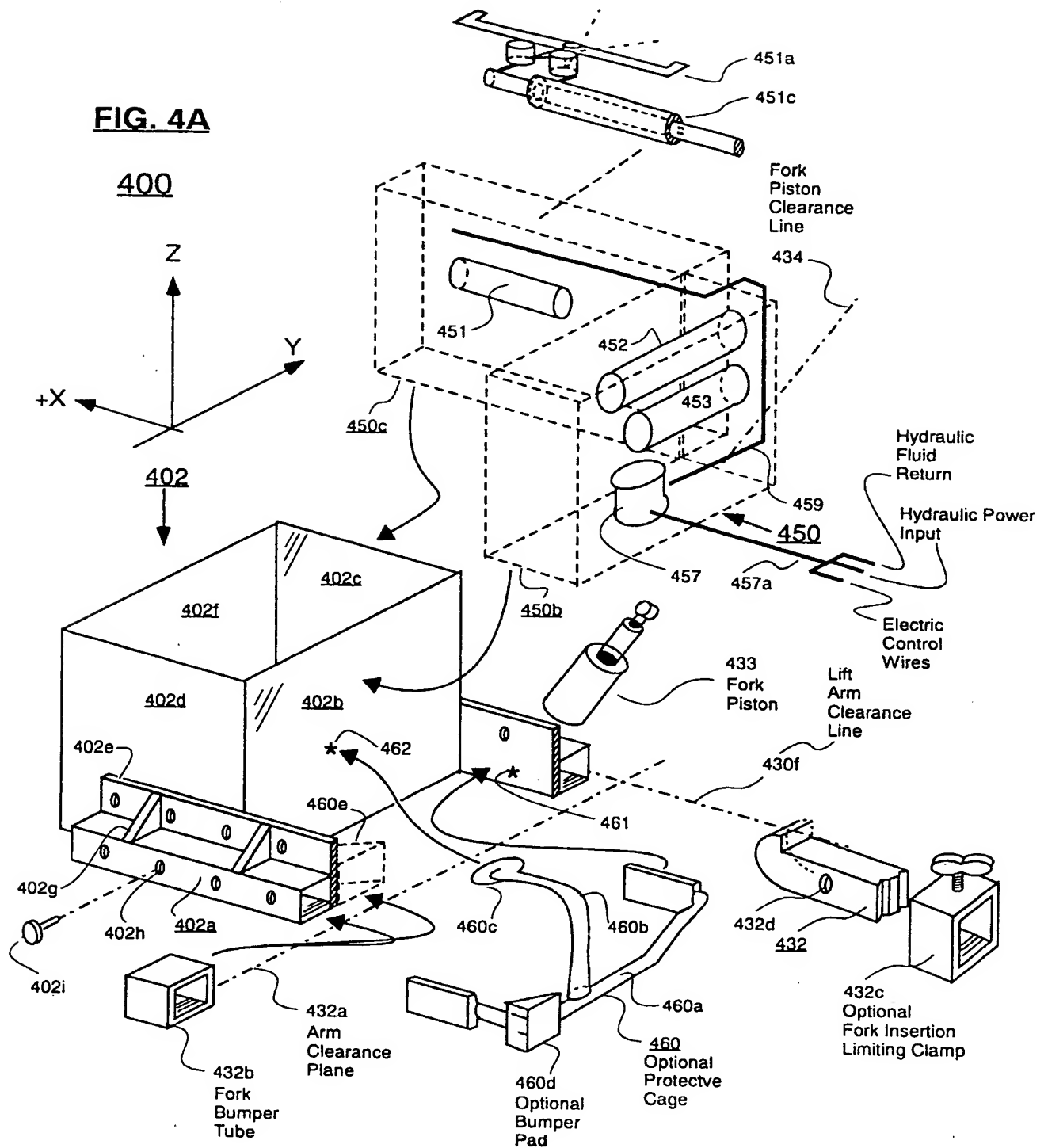
305

+X

-X

REARWARD

FIG. 4A



400"

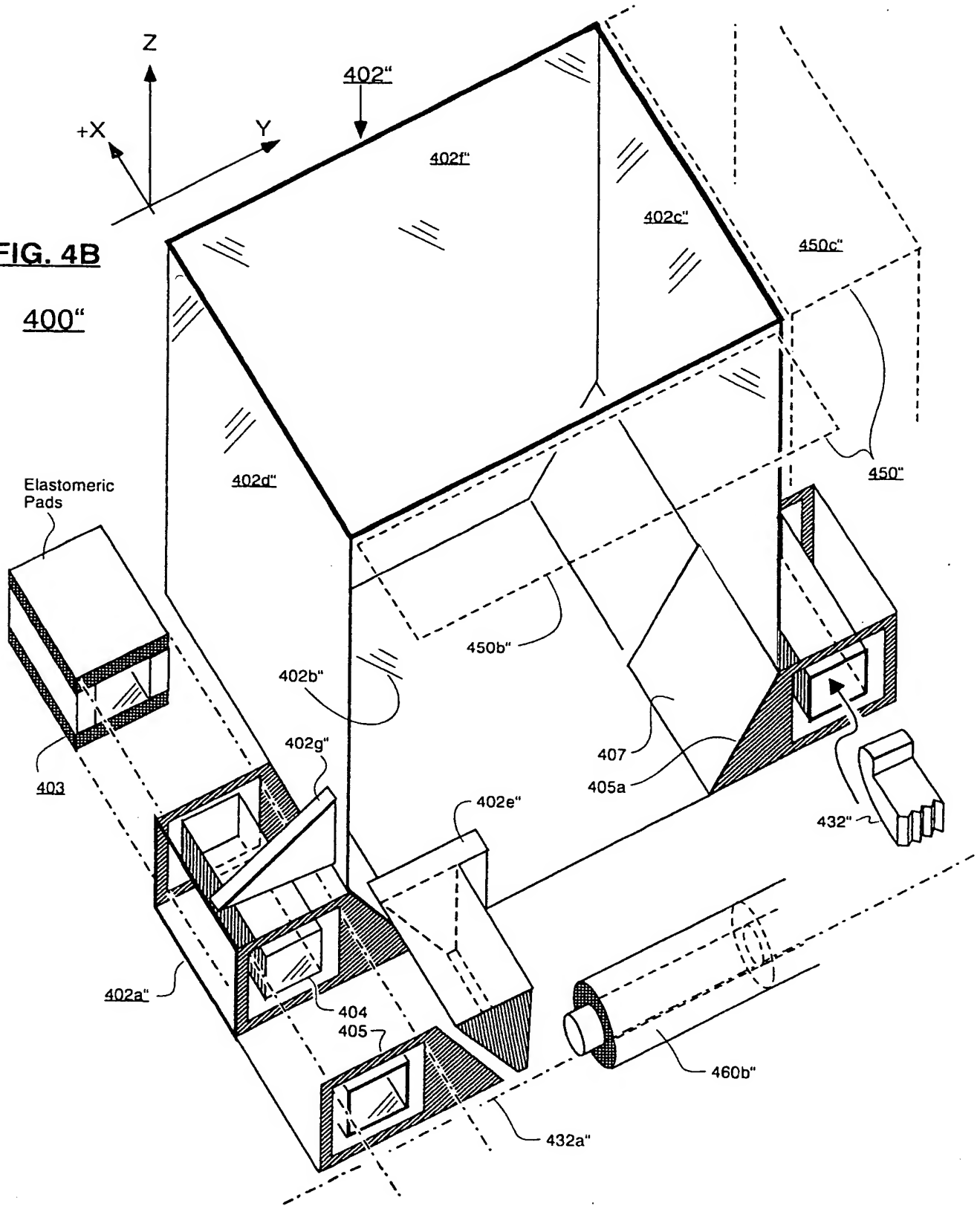


FIG. 4C

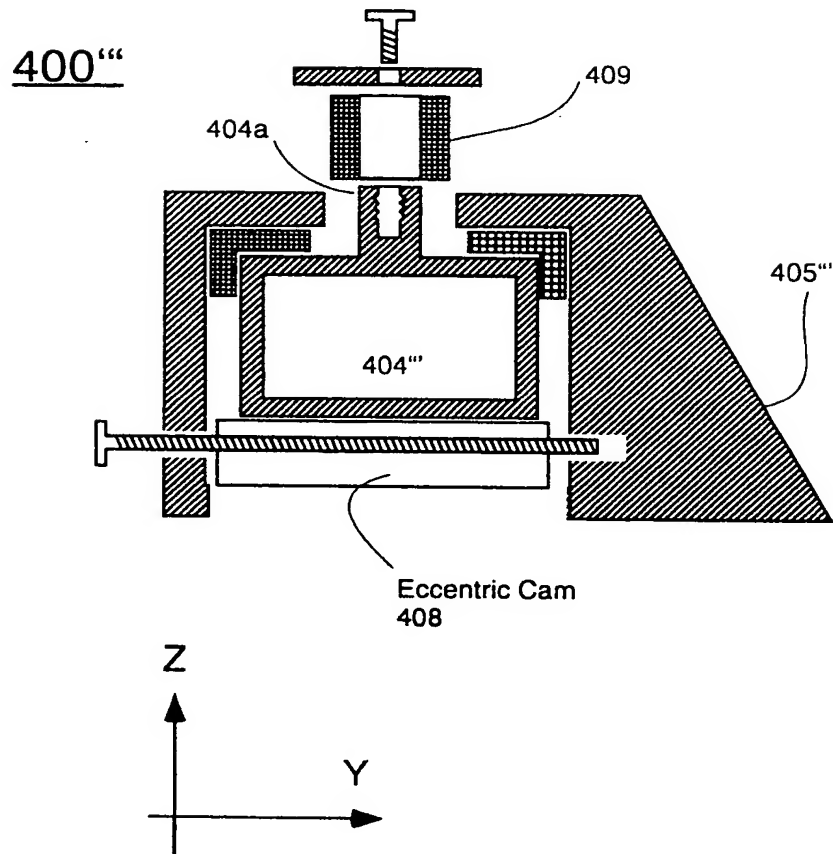


FIG. 4D

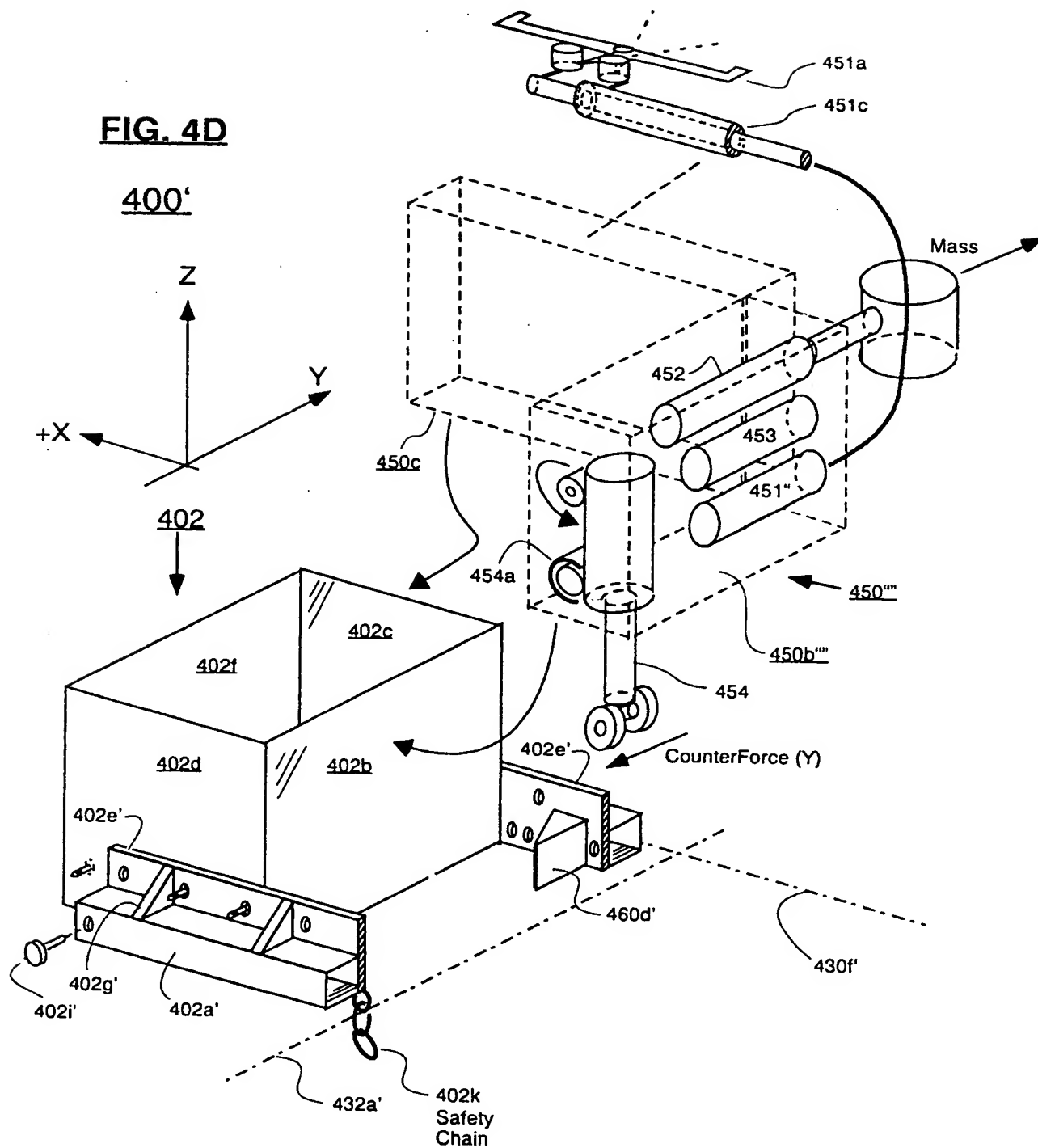


FIG. 5A

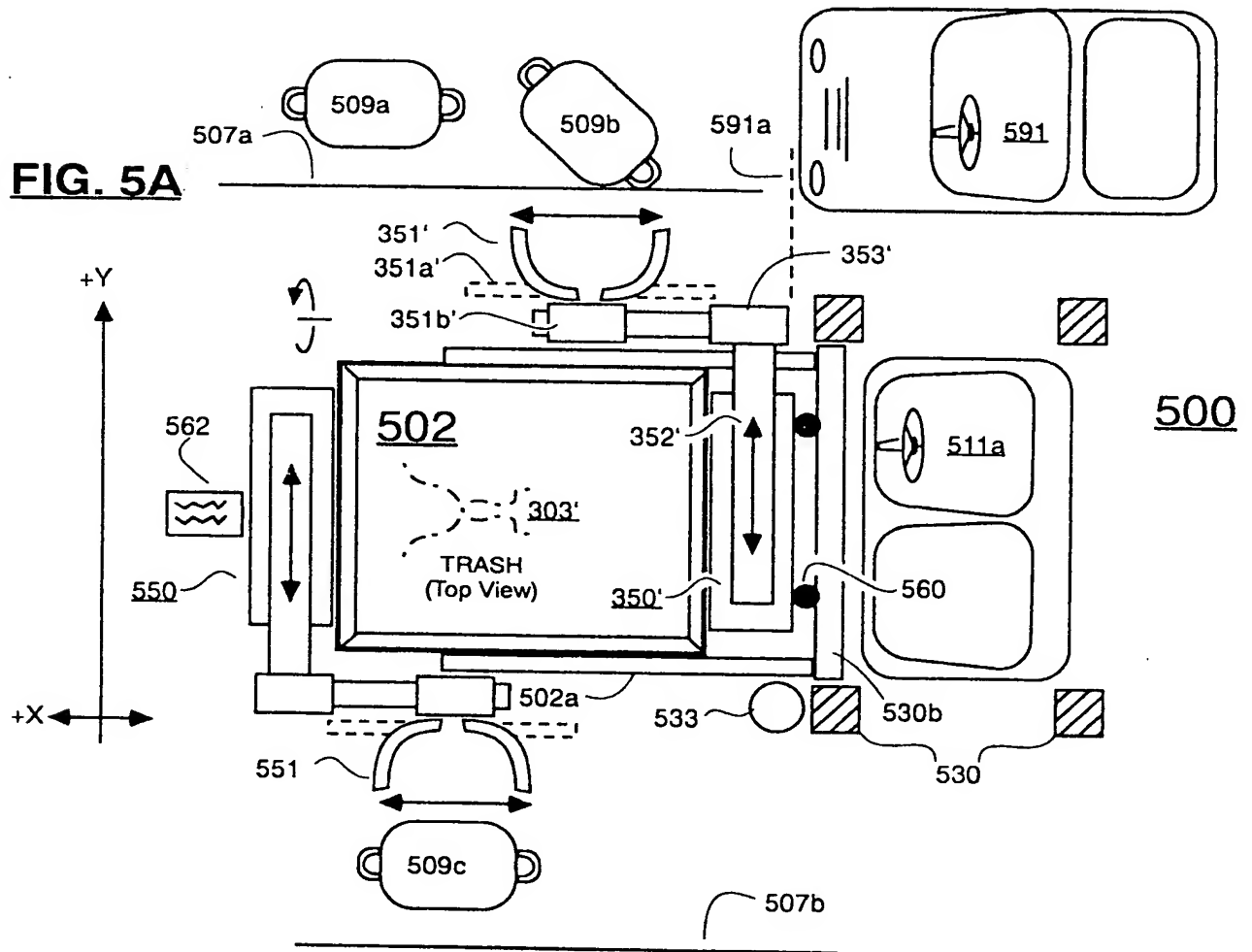


FIG. 5B

